

# Protein Common to Hair Follicles and Skeletal Muscles Target of Immune System in Patients with Polymyocitis

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## **Introduction**

Polymyocitis is an autoimmune condition leading to muscle wasting which is poorly understood.

## **Abstract**

Under conditions of early-stage starvation, autoimmune responses affecting muscles comparable to polymyocitis set in as the body attempts to break down muscle in order to convert it into an energy source. This similarity opens up the possibility that there are genetic links between proteins found in hair follicles of the scalp and of the muscles affected by polymyocitis.

If you cross-reference the proteins found in skeletal muscle and hair follicles (specifically hair follicles of the scalp,) amongst the proteins common to these tissues we may find that polymyocitis patients' immune systems are attacking that protein, specifically. Identifying this protein could easily form a basis for the treatment of this devastating muscle-wasting disease.

## **Conclusion**

The responsible protein could be readily identified by narrowing the search to those proteins which are common to hair follicles and skeletal muscle.